



DEV-9

Web 2.0 Distributed AJAX Applications

Combining Progress® OERA and OpenLaszlo™

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Using Laszlo[®] with Progress

- Laszlo Overview
- Laszlo Server
- Sample Application
- Laszlo IDE
- Debugger
- OO Framework
- OERA Data Access

Laszlo Overview

- www.openlaszlo.org
- Open Source Web 2.0 Product
- Laszlo – the Commercial Company
- A UI Definition Language
- Declarative XML
- Object Oriented
- Eclipse IDE (spket)

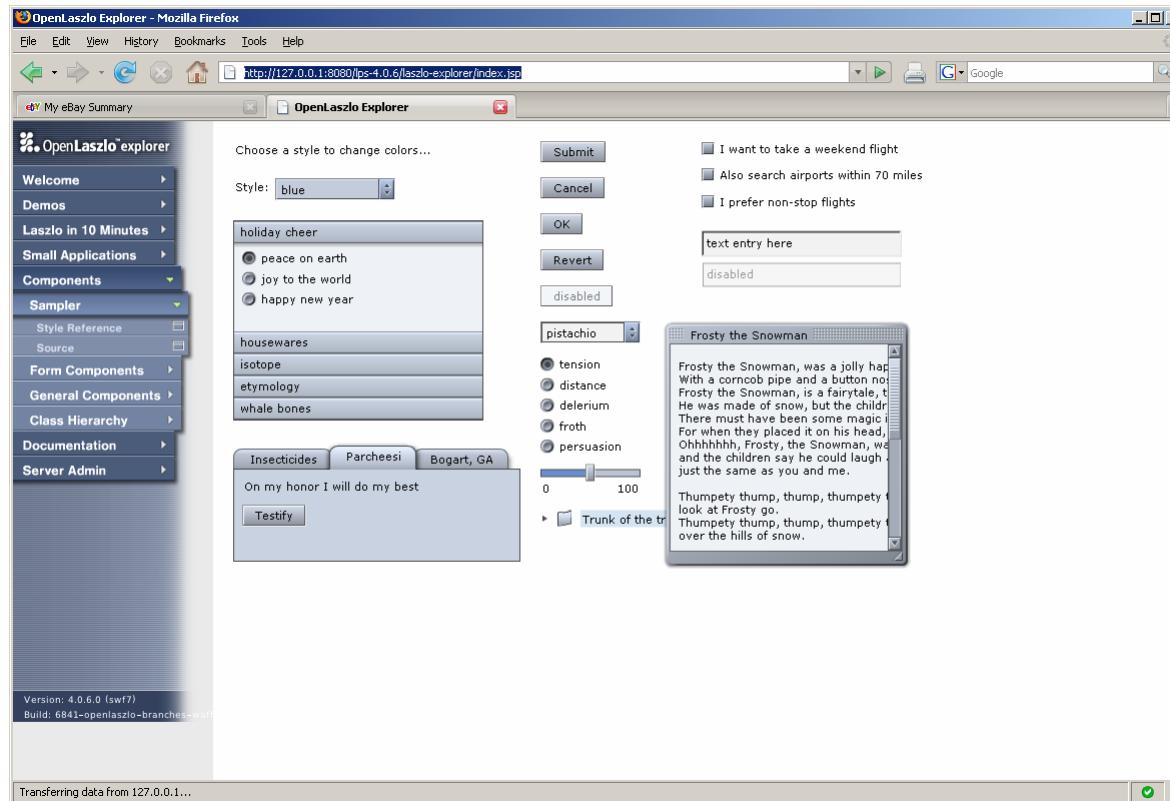
Laszlo Overview

- XML Datasets with XPath
- AJAX Data Retrieval Built In
- Databound Widget Library
- Server or Client Side Data Retrieval
- Tomcat Compiles Laszlo Source
- Deploys as either Flash or DHTML
- Integrated Debugger

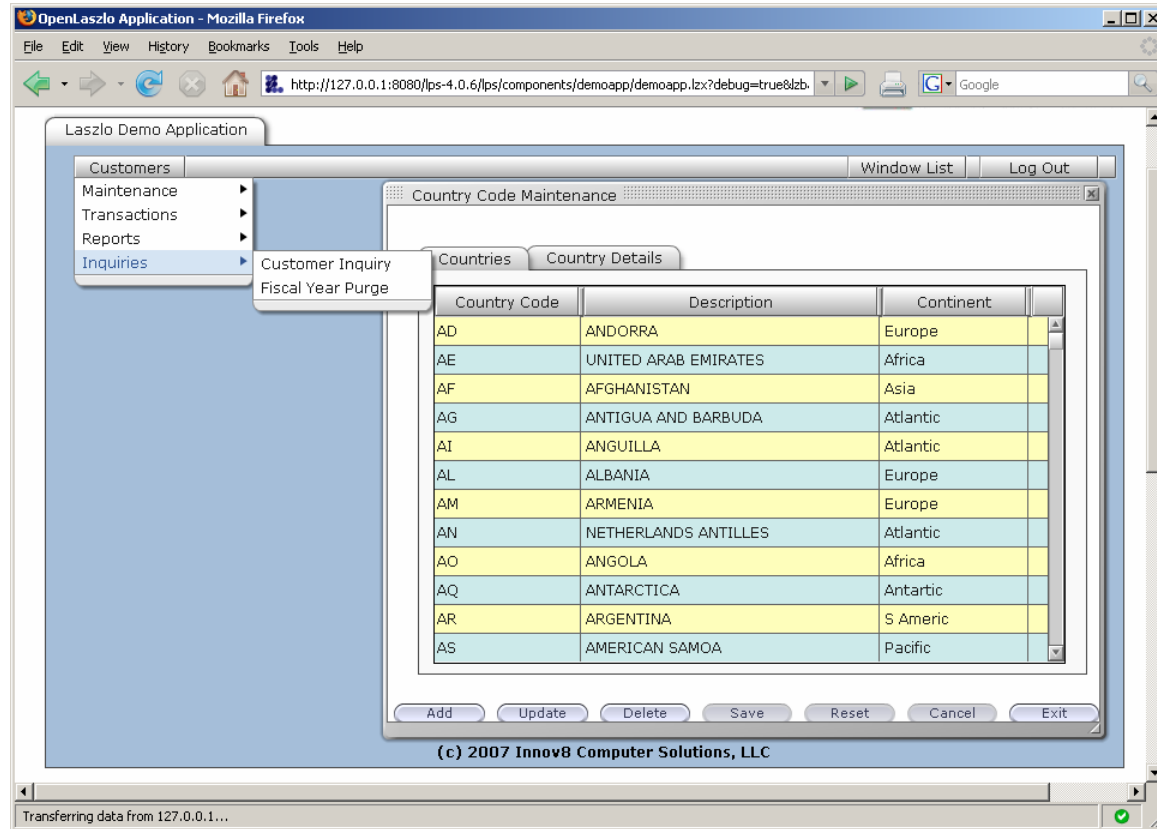
Demos

- Laszlo Server
- Laszlo Explorer
- Application
- Debugger

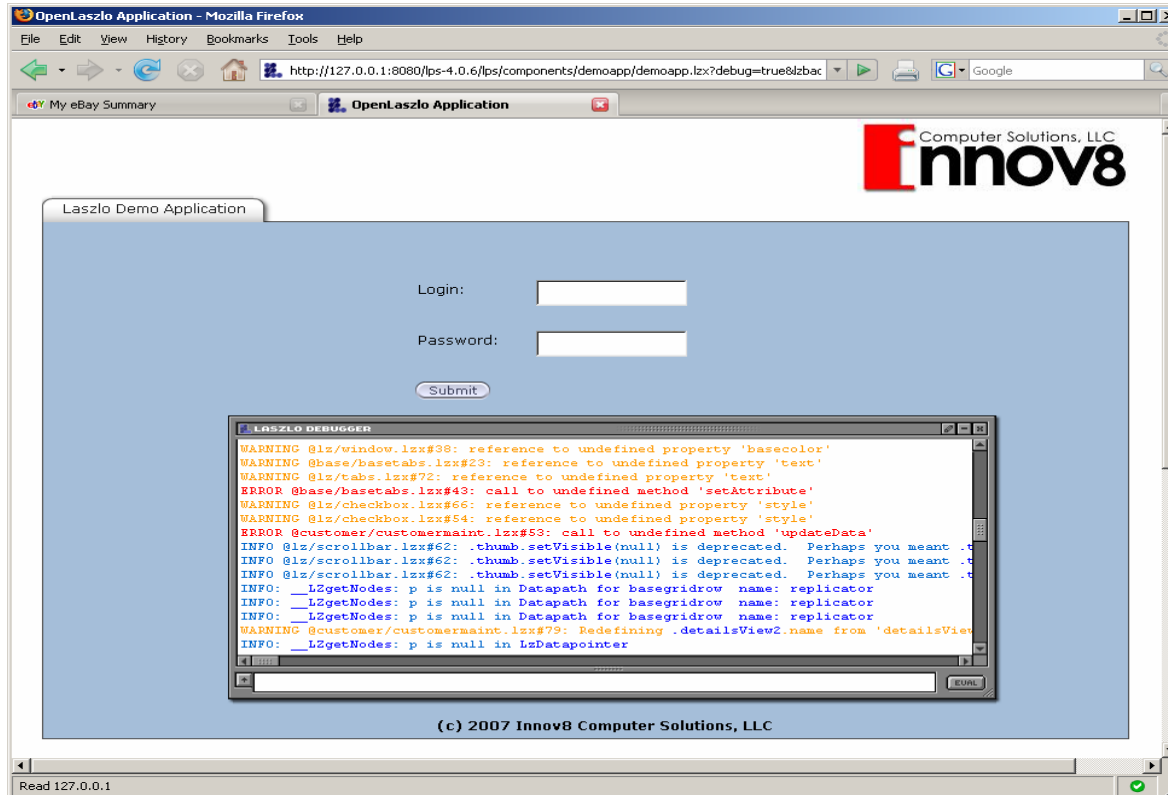
Laszlo Explorer



Demo Application



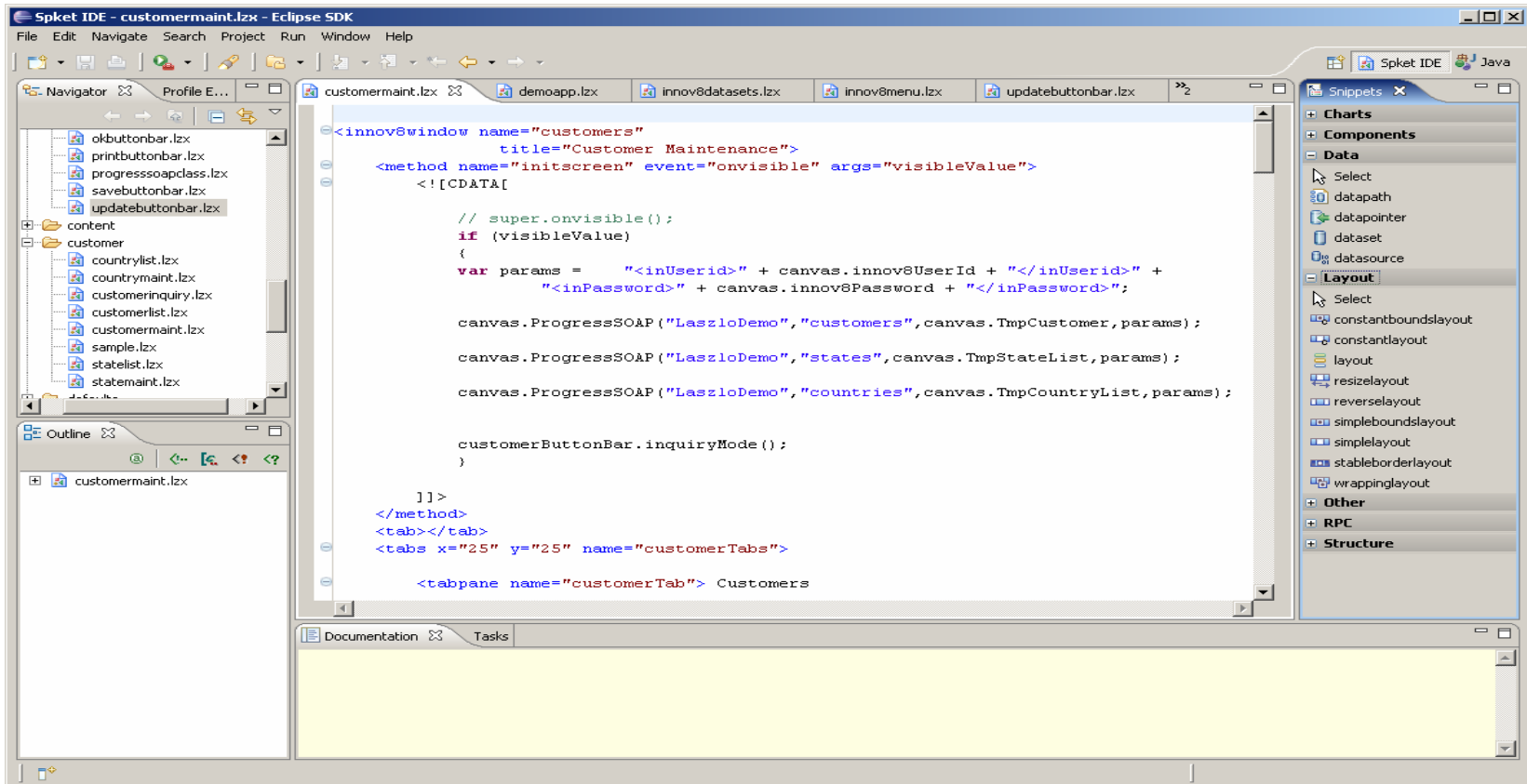
Laszlo Debugger



Progress Integration

➤ Eclipse IDE

Laszlo Eclipse IDE (from Spket)



Progress Integration

- OO Framework
 - Base Classes
 - Screen Templates

Laszlo Framework Button Bar

```
> <class name="updatebuttonbar" extends="view">
>   <attribute type="string" name="mainTab" value="null" />
>   <attribute type="string" name="secondaryTab" value="null" />
>   <method name="updateMode">
>     this.addButton.setAttribute('enabled',false);
>     this.updateButton.setAttribute('enabled',false);
>   </method>
>   <method name="inquiryMode">
>     this.addButton.setAttribute('enabled',true);
>     this.updateButton.setAttribute('enabled',true);
>   </method>
>   <method name="initScreen">
>     this.clearScreen();
>     this.initData();
>     this.viewData();
>   </method>
>   <method name="initData">
>   </method>
>   <method name="viewData">
>   </method>
>   <method name="validateData">
>   </method>
>   <method name="resetButtonMethod">
>     this.viewDetails();
>     this.updateMode();
>   </method>
>   <method name="exitButtonMethod">
>     parent.close();
>   </method>
>   <simplelayout name="layout" axis="x" spacing="10"/>
>   <innov8button name="addButton" text="Add" onclick="parent.doaddButtonMethod();" enabled="false" />
>   <innov8button name="updateButton" text="Update" onclick="parent.doupdateButtonMethod();" enabled="false" />
> </class>
```

Progress Integration

➤ OERA Data Access

- Laszlo for UI
- Progress for Business Logic
- Tied Together with Progress Web services

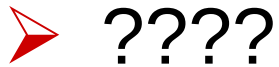
Laszlo Data Access Code

```
➤ var ns = "urn:innov8cs.com:" + serviceName;

➤ var sr = "<?xml version=\"1.0\" encoding=\"utf-8\"?>" +
➤ "<soap:Envelope " +
➤ "xmlns:urnl=\"urn:innov8cs.com\" " +
➤ "xmlns:urn=\"\" + ns + "\" " +
➤ "xmlns:xsi=\"http://www.w3.org/2001/XMLSchema-instance\" " +
➤ "xmlns:xsd=\"http://www.w3.org/2001/XMLSchema\" " +
➤ "xmlns:soap=\"http://schemas.xmlsoap.org/soap/envelope/\">" +
➤ "<soap:Header/>" +
➤ "<soap:Body soap:encodingStyle=\"http://schemas.xmlsoap.org/soap/encoding/\">" +
➤ "<urn:\" + portName + ">" + parameters + "</urn:\" + portName + ">" +
➤ "</soap:Body></soap:Envelope>";

➤ Debug.write("Request Body = " + sr);
➤ canvas.demoAppTabs.demoAppTab.setAttribute("opacity",0.50);
➤ datasetname.setHeader("SOAPAction","innov8cs");
➤ datasetname.setHeader("Content-Type","text/xml");
➤ datasetname.setQueryParam("lzpostbody",sr);
➤ datasetname.setQueryType("POST");
➤ Debug.write("Doing Request");
➤ datasetname.doRequest();
```

Question & Answers



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